

May 08, 2015

Brady Gerber
Integrated Solutions
215 S. Laura
Wichita, KS 67211

RE: Project: CLEAN HARBORS - WICHITA KS
Pace Project No.: 60193448

Dear Brady Gerber:

Enclosed are the analytical results for sample(s) received by the laboratory on May 06, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Sherri Rosenstangle
sherri.rosenstangle@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Kansas Certification IDs

9608 Loiret Boulevard, Lenexa, KS 66219

WY STR Certification #: 2456.01

Arkansas Certification #: 13-012-0

Illinois Certification #: 003097

Iowa Certification #: 118

Kansas/NELAP Certification #: E-10116

Louisiana Certification #: 03055

Nevada Certification #: KS000212008A

Oklahoma Certification #: 9205/9935

Texas Certification #: T104704407

Utah Certification #: KS00021

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SAMPLE SUMMARY

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60193448001	NE5-SW4-2.5'	Solid	05/06/15 12:20	05/06/15 22:25
60193448002	NE3-SW10-2.5'	Solid	05/06/15 12:30	05/06/15 22:25

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SAMPLE ANALYTE COUNT

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Lab ID	Sample ID	Method	Analysts	Analytes Reported
60193448001	NE5-SW4-2.5'	EPA 6010	SMW	1
		ASTM D2974	DWC	1
60193448002	NE3-SW10-2.5'	EPA 6010	SMW	1
		ASTM D2974	DWC	1

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Sample: NE5-SW4-2.5' **Lab ID:** 60193448001 Collected: 05/06/15 12:20 Received: 05/06/15 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Chromium	3.6	mg/kg	0.57	1	05/07/15 10:00	05/07/15 15:44	7440-47-3	
Percent Moisture								
Analytical Method: ASTM D2974								
Percent Moisture	17.4	%	0.50	1		05/07/15 00:00		

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ANALYTICAL RESULTS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Sample: NE3-SW10-2.5' **Lab ID:** 60193448002 Collected: 05/06/15 12:30 Received: 05/06/15 22:25 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP Red. Interference								
Analytical Method: EPA 6010 Preparation Method: EPA 3050								
Chromium	30.0	mg/kg	0.63	1	05/07/15 10:00	05/07/15 15:50	7440-47-3	
Percent Moisture								
Analytical Method: ASTM D2974								
Percent Moisture	25.3	%	0.50	1		05/07/15 00:00		

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

QC Batch: MPRP/31711

Analysis Method: EPA 6010

QC Batch Method: EPA 3050

Analysis Description: 6010 MET

Associated Lab Samples: 60193448001, 60193448002

METHOD BLANK: 1563459

Matrix: Solid

Associated Lab Samples: 60193448001, 60193448002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	mg/kg	ND	0.50	05/07/15 14:58	

LABORATORY CONTROL SAMPLE: 1563460

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/kg	100	94.9	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563461 1563462

Parameter	Units	60193151001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/kg	17.0	101	107	116	120	97	96	75-125	4	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALITY CONTROL DATA

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

QC Batch: PMST/10723

Analysis Method: ASTM D2974

QC Batch Method: ASTM D2974

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 60193448001, 60193448002

METHOD BLANK: 1563809

Matrix: Solid

Associated Lab Samples: 60193448001, 60193448002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Percent Moisture	%	ND	0.50	05/07/15 00:00	

SAMPLE DUPLICATE: 1563810

Parameter	Units	60193448001 Result	Dup Result	RPD	Max RPD	Qualifiers
Percent Moisture	%	17.4	17.5	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

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QUALIFIERS

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: CLEAN HARBORS - WICHITA KS

Pace Project No.: 60193448

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60193448001	NE5-SW4-2.5'	EPA 3050	MPRP/31711	EPA 6010	ICP/23553
60193448002	NE3-SW10-2.5'	EPA 3050	MPRP/31711	EPA 6010	ICP/23553
60193448001	NE5-SW4-2.5'	ASTM D2974	PMST/10723		
60193448002	NE3-SW10-2.5'	ASTM D2974	PMST/10723		

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Sample Condition Upon Receipt

WO#: 60193448



Client Name: ISI

Courier: FedEx ☐ UPS ☐ VIA ☐ Clay ☐ PEX ☐ ECI ☒ Pace ☐ Other ☐ Client ☐

Tracking #: _____ Pace Shipping Label Used? Yes ☐ No ☒

Custody Seal on Cooler/Box Present: Yes ☒ No ☐ Seals intact: Yes ☒ No ☐

Packing Material: Bubble Wrap ☐ Bubble Bags ☒ Foam ☐ None ☐ Other ☐

Thermometer Used: CF-0.1 T-239 / CF-1.8 T-194

Type of Ice: Wet Blue None ☐ Samples received on ice, cooling process has begun.
(circle one)

Cooler Temperature: 4.1

Date and initials of person examining contents: 5/7/15

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody filled out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler name & signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>1 Day</u>
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Unpreserved 5035A soils frozen w/in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	12.
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	13.
Sample labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Includes date/time/ID/analyses	Matrix: <u>SL</u>	15.
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	17.
Exceptions: VOA, Coliform, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
Trip Blank present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	Lot # of added preservative
Pace Trip Blank lot # (if purchased):		18.
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	19.
Project sampled in USDA Regulated Area:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	20. List State: <u>KS</u>

Client Notification/ Resolution:

Copy COC to Client? Y / N

Field Data Required? Y / N

Person Contacted: _____

Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: [Signature]

Date: 5.7.15

